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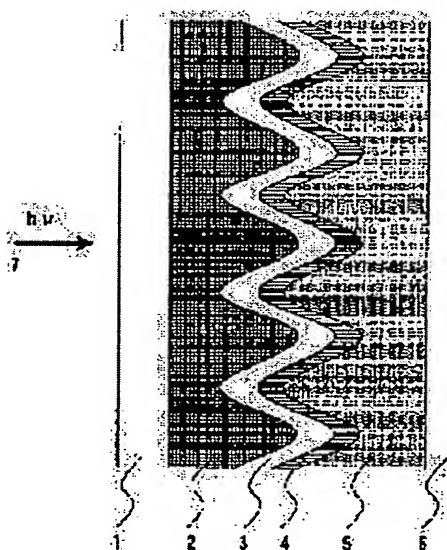
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(71)Applicant : TOSHIBA CORP

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(72)Inventor : NAITO KATSUYUKI
SAKURAI MASATOSHI
TANAKA SHIGENORI
HORIGUCHI AKIHIRO

(54) PHOTOCHEMICAL BATTERY AND ITS MANUFACTURE



(57)Abstract:

PROBLEM TO BE SOLVED: To provide a photochemical battery with a pigment layer capable of absorbing a larger amount of light and capable of absorbing light over a wider range of wavelengths.

SOLUTION: This photochemical battery has a structure made up by layering a semiconductor electrode, pigment layers 3, 4, a charge carrying layer 5, and a counter electrode 6, in order, and at least one of the electrodes is transparent. The photochemical battery is characterized in that the pigment layers 3, 4 are stacked pigment layers made up by stacking at least two pigment layers made of pigments different from each other. In this manufacturing method of the photochemical battery, a solution including a first pigment 3 electrified with a fixed polarity is brought into contact with and adsorbed to a surface of a semiconductor layer and then a solution including a second pigment 4 electrified with the opposite polarity to the first pigment 3 is brought into contact with and adsorbed to the first pigment, thus forming the stacked pigment layers.

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